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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/427,945	10/26/1999	KAZUO SAKAGAWA	FUSA-12.689A	3970

7590 12/26/2001

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EMPIRE STATE BUILDING 60TH FLOOR  
NEW YORK, NY 10118

EXAMINER

LUU, LE HIEN

ART UNIT	PAPER NUMBER
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2152

DATE MAILED: 12/26/2001

17

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES DEPARTMENT OF COMMERCE  
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This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS

OFFICE ACTION SUMMARY

☒ Responsive to communication(s) filed on 09/17/2001

☐ This action is FINAL.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 D.C. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s) or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-3, 6, 8, 11-12, 14-15, & 40-55 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-3, 6, 8, 11-12, 14-15, & 40-55 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☐ Notice of Reference Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

- SEE OFFICE ACTION ON THE FOLLOWING PAGES -

1. Claims 1-3, 6, 8, 11-12, 14-15, 40-55 are presented for examination.
2. A declaration that was mentioned in the remarks of preliminary amendment filed on 09/17/2001 has not been filed by applicant.
3. The text of those sections of Title 35, U.S. Code § 103 (a) not included in this action can be found in a prior Office Action.
4. Claims 1, 8, 12, 40, 46, and 49 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over **"Address Resolution Protocol"** by Finn in view of Mori patent no. **5,425,026**.
5. As to claim 40, Finn discloses the invention substantially as claimed, including a network system having a server, the method comprising the steps of:
  - receiving, from an originating terminal by the server, a terminal address interrogation request including a first value indicative of a request and a first address (LE\_ARP\_REQUEST sent by LE client to LE server; page 2, SEC 6.0);
  - transferring, by the server, the terminal address interrogating request to a plurality of terminals (LE server forwards LE\_ARP\_REQUEST; page 2, SEC 3.2.3; page 5, SEC 6.2.8);

receiving, by the server, an answer including a second value indicative of an answer and a second address which corresponds to the first address, from one of the plurality of terminals in response to the terminal address interrogation request which has been transferred by the server (LE Client response to LE server LE\_ARP\_REQUEST with a LE\_ARP\_REPLY; page 2, SEC 3.2.3; page 2 SEC 6.0) ; and

However, Finn does not explicitly teach registering in the server a corresponding relationship between the first address and the second address which is included in the answer.

Mori teaches registering in an address translation table of an address server a mapping of network address and port address (col. 7 line 47 - col. 8 line 28).

It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention to combine the teachings of Finn and Mori to register the relationship between the first address and the second address which is included in the answer in a address server because it would support address translation for users without generating undesired overhead traffic.

6. As to claim 46, Finn, Mori, and Burnett inherently teach the server periodically receives a terminal address interrogation request including a second address and a second value indicative of an answer from each terminal of the plurality of terminals, whereby the corresponding relationship between the first address of its own terminal and

the second address is kept in an address table (Finn, pages 2 and 4 , SEC. 6.0, 6.1.2, 6.1.12; Mori, col. 7 line 47 - col. 8 line 28).

7. Claims 2-3, 6, 11, 14-15, 41-45, 47-48, and 50-55 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over **“Address Resolution Protocol”** by **Finn** in view of **Mori** patent no. **5,425,026**, and further in view of **Burnett et al. (Burnett)** patent no. **5,633,869**.

8. As to claims 41-42, Finn and Mori teach the invention substantially as discussed above; however, they do not explicitly teach deleting an entry having a corresponding relationship between a first address and a second address, nor having the oldest reference time. Burnett teaches entries in MAC-to-port table of an address translation table can be added, updated, deleted, and timeout (col. 15 line 65 - col. 16 line 60). Therefore, It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention to combine the teachings of Finn, Mori, and Burnett to delete or update the entries in the table when the entries is no longer needed because it would only keep the up-to-date entries in the table.

9. As to claims 43, Finn, Mori, and Burnett inherently teach the switch or exchange connects the server with a plurality of terminals by PVCs, and when the terminal address interrogation request in the form of a cell having a predetermined virtual channel identifier

is entered from the server, the switch or exchange appends tag information indicating a terminal group to the cell, performs cell copying based on the tag information indicating the terminal group , and transfer the cell to terminals of the terminal group (Burnett, col. 9 line 1 - col. 10 line 68).

10. As to claim 44, Finn, Mori, and Burnett inherently teach a switch or exchange, and wherein the transferring step includes: a step in which the switch or exchange connects the server with the plurality of terminals by PVCs (permanent virtual channels) having identical values and divides the plurality of terminals into a plurality of groups, a step in which, when the terminal address interrogation request in the form of a cell and having the identical value for PVC is entered from the server, the switch or exchange performs cell copying, whereby the terminal address interrogation request cell is transferred in a first group, a step in which the server performs monitoring to determine whether a prescribed terminal has answered with its own address within a set period of time; a step in which the server sends the terminal address interrogation request cell to terminals of the next group when no terminal answers with its own address with the set period of time, and a step in which the server transfers the terminal address interrogation request while successively changing the group until a prescribed terminal answers with its own address (Finn, pages 4-5, SEC. 6.1.8, 6.1.12, 6.2.6, 6.2.8 ; inherent features can be found in Burnett).

11. As to claim 45, Finn, Mori, and Burnett inherently teach the server receives the answer including a second address and the second value from the one of the plurality of terminals, the server registers the corresponding relationship between the first address and the second address in place of the address table designated by an index value which is calculated based on a value of the first address or the second address (Finn, page 2, SEC. 6.0, 6.1.4, 6.2.8; inherent features can be found in Burnett).

12. Claims 1-3, 6, 8, 11-12, 14-15, and 47-55 have similar limitations as claims 40-46; therefore, they are rejected under the same rationale.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Le H. Luu, whose telephone number is (703) 305-9650. The examiner can normally be reached Monday through Friday from 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart, can be reached at (703) 305-4815. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.

Serial Number: 09/427,945  
Art Unit: 2152

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Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
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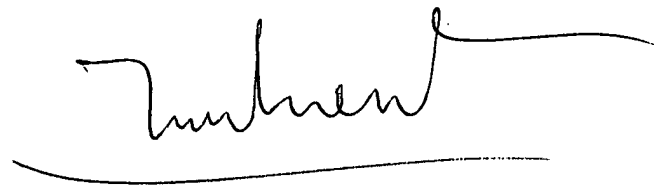
**or faxed to:**

(703) 746-7239, (for **formal communications**; please mark  
"EXPEDITED PROCEDURE").

**Or:**

(703) 746-7240 (for **informal or draft communications**, please label  
"PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,  
Arlington, VA., Sixth Floor (Receptionist).

A handwritten signature in black ink, appearing to read 'Le Hien Luu', with a long horizontal line extending to the right.

**LE HIEN LUU**  
**PRIMARY EXAMINER**

December 14, 2001